INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We make Indiana a cleaner, healthier place to live.

Joseph E. Kernan
Governor

Lori F. Kaplan
Commissioner

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P.O. Box 6015
Indianapolis, Indiana 46206-6015
(317) 232-8603
(800) 451-6027
www.in.gov/idem

February 20, 2004

TO: Interested Parties / Applicant

RE: Eli Lilly and Company / 059-18173-00001

FROM: Paul Dubenetzky
Chief, Permits Branch
Office of Air Quality

Notice of Decision – Approval

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to 326 IAC 2, this approval was effective immediately upon submittal of the application.

If you wish to challenge this decision, IC 4-21.5-3-7 requires that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **within eighteen (18) calendar days from the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

(1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
(2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
(3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

(1) the name and address of the person making the request;
(2) the interest of the person making the request;
(3) identification of any persons represented by the person making the request;
(4) the reasons, with particularity, for the request;
(5) the issues, with particularity, proposed for considerations at any hearing; and
(6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.

Enclosures
FNPER-AM.dot 9/16/03

February 20, 2004

Mr. David O'Donnell
Lilly Research Laboratories-Greenfield Laboratories
A Division of Eli Lilly and Company
P.O. Box 708
Greenfield, Indiana 46140

Re: 059-18173
Second Administrative Amendment to
Part 70 059-12151-00001

Dear Mr. O'Donnell:

Eli Lilly and Company - Greenfield Laboratories, located at 2001 West Main Street, Greenfield, Indiana was issued a FESOP 059-1215-00001 on May 2, 2002 for a pharmaceutical research facility. A letter requesting an administrative amendment to the FESOP was received on September 24, 2003 with additional information received on November 13, 2003. The letter requests to add emergency generators under 326 IAC 2-8-10(a)(14), which are units of the same type already permitted and will comply with the same applicable requirements and permit terms and conditions as the existing units. Therefore, the FESOP will be administratively amended, pursuant to the provisions of 26 IAC 2-8-10 as follows (additions are **bolded** and deletions are ~~struck-through~~ for emphasis):

Request 1: Installation of the following emergency generators:

(a) One (1) diesel reciprocating internal engine emergency generator, rated at 166 horsepower (hp), identified as EG210;

(b) One (1) natural gas-fired reciprocating internal engine emergency generator, rated at 415 hp, identified as EG239;

(c) One (1) diesel generator rated at 1,200 hp, identified as EG220; and

(d) One (1) diesel generator rated at 2,836 hp, identified as LC45.

Request 2: Eli Lilly also request the clarification of the Potential to Emit for Emergency Generators
The original FESOP issued to Lilly was based on 200 hours per year of operation, based on the source's historical number of hours of operation and USEPA's November 1995 guidance that says PTE for emergency generators can be based on historical operating data (500 hour PTE is a default value when no operating data is available). However, Lilly did appeal section D terms of the original FESOP that imposed record keeping to verify the emergency generators operated less than 200 hours per year. During the course of negotiations to resolve Lilly's appeal of the original FESOP, IDEM and Lilly agreed that the PTE of the generators could be based on 200 hours per year of operation without the need to have Section D requirements relating to an enforceable limit on hours of operation and record keeping. The FESOP drafts prepared in late 2001, prior to re-issuance of the FESOP in 2002, were also based on 200 hours per year. The Technical Support Document

for the May 2002 renewal, however, indicates that the PTE for these units is based on 500 hours per year of operation. (See the footnotes on Table 6 at the end of the TSD.) This was most likely due to the fact none of the representatives from Lilly and IDEM working through the permit renewal were part of the original discussions and agreement.

Response 2: Yes, the PTE for the emergency generators in FESOP Renewal 059-12151-00001, issued on May 2, 2002 was based on 500 hours per year instead of 200 hours per year as earlier negotiated by Lilly during the appeal process. IDEM, OAQ, at the time of the issuance of the FESOP Renewal was being issued, believed that 500 hours per year was the default PTE for emergency generators and using 200 hours per year would require an enforceable limitation on hours of operation and recordkeeping requirements in the permit. Lilly's representatives chose to calculate the PTE at 500 hours per year.

IDEM, OAQ was able to gather the information submitted by Lilly in the original appeal. In this Administrative Amendment, IDEM, OAQ has reversed the decision of calculating the emergency generators PTE from 500 hours per year to 200 hours per year, based on Lilly's emergency generators historical operating hours. Spreadsheets Pages 1 of 6, 2 of 6, 5 of 6, and 6 of 6 of the FESOP Renewal were amended to reflect the changes in the PTE.

Sections A.2 and D.2 were amended as follows to removed any reference to the Brule incinerator, since this incinerator was removed from service on August 1, 2003:

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

This stationary source consists of the following emission units and pollution control devices:

(a) Five (5) boilers

Qty	Facility/Operation Description and ID No.	Control Device and ID No.	Stack ID No.
5	natural gas/no. 2 fuel oil fired boiler (ID#s 254-1, 254-2, 254-3, 254-4, and 262-1) with heat input capacities of 51.0, 63.0, 67.0, and 78.0, and 3.2 million Btu per hour, respectively	none	254-1, 254-2, 254-3, 254-4, and 262-1

(b) ~~Two (2)~~ **One (1)** incinerator~~s~~

Qty	Facility/Operation Description and ID No.	Control Device and ID No.	Stack ID No.
~~1~~	~~natural gas-fired, multi chamber, Brule incinerator (ID# 253-1) with a natural gas heat input capacity of 3.9 million Btu per hour~~	~~none~~	~~253-1~~
1	natural gas-fired, multi chamber, Consumat incinerator (ID# 241-1) with a natural gas heat input capacity of 2.8 million Btu per hour.	none	241-1

(c) ~~Two (2) each 500 hours per year~~, **One (1) 500 hours per year** no.2 fuel oil-fired back-up **generator** and **one (1) 200 hours per year** emergency generator~~s~~

Qty	Facility/Operation Description and ID No.	Control Device and ID No.	Stack ID No.
1	No. 2 fuel oil fired back-up generator (ID# B409) with a heat input capacity of 5.63 million Btu per hour	none	0
1	No. 2 fuel oil fired emergency generator (ID #EMG-TOX) with a heat input capacity of 19.3 million Btu per hour	none	**0**

A.3 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-8-3(c)(3)(I)]

This stationary source also includes the following insignificant activities, as defined in 326 IAC 2-7-1(21):

(a) through (o) no change

(p) One (1) diesel reciprocating internal engine emergency generator, rated at 166 horsepower (hp), identified as EG210;

(q) One (1) natural gas-fired reciprocating internal engine emergency generator, rated at 415 hp, identified as EG239;

(r) One (1) diesel generator rated at 1,200 hp, identified as EG220; and

(s) One (1) diesel generator rated at 2,836 hp, identified as LC45.

SECTION D.2 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:
(b) ~~Two (2)~~ **One (1)** incinerator~~s~~:

~~(1) one (1) natural gas fired, multi chamber, Brule incinerator (ID# 253-1) with a natural gas heat input capacity of 3.9 million Btu per hour. This incinerator does not have any air pollution control device and exhausts through stack 253-1.~~

~~(2)~~ one (1) natural gas fired, multi chamber, Consumat incinerator (ID# 241-1) with a natural gas heat input capacity of 2.8 million Btu per hour. This incinerator does not have any air pollution control device and exhausts through stack 241-1.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emissions Limitations and Standards [326 IAC 2-8-4(1)]

D.2.1 Particulate Matter [326 IAC 4-2]

Pursuant to 326 IAC 4-2 (Incinerator Rule), ~~each of the two (2)~~ incinerator~~s~~ shall:

(a) consist of primary and secondary chambers or the equivalent;

(b) be equipped with a primary burner unless burning wood products;

(c) comply with 326 IAC 5-1 and 326 IAC 2;

(d) be maintained properly as specified by the manufacturer and approved by the commissioner.

(e) be operated according to the manufacturer's recommendation and only burn waste approved by the commissioner;

(f) comply with other state and/or local rules or ordinances regarding the operation of incinerators;

(g) be operated so that emissions of hazardous material including, but not limited to, viable pathogenic bacteria, dangerous chemicals or gases, noxious odors are prevented;

(h) to not emit particulate matter (PM) emissions in excess of 0.3 pounds per 1,000 pounds of dry exhaust gas at standard conditions corrected to 50% excess air; and

(i) not create a nuisance or a fire hazard.

If any of the above result, the burning shall be terminated immediately.

D.2.2 no change

D.2.3 Hydrochloric Acid (HAP) [326 IAC 2-7]

The total annual waste throughput to the ~~two (2)~~ incinerator~~s~~ shall not exceed a total of 591 tons per twelve (12) consecutive month period, rolled on a monthly basis. This limitation was taken by the company and is equivalent to hydrochloric acid (a HAP) emissions less than 10 tons per year rolled on a monthly basis from both incinerators. Compliance with the HAP limit shall make Part 70 (326 IAC 2-7) not applicable.

D.2.4 no change

D.2.5 40 CFR Part 60.2500, Subpart DDDD Emission Guidelines for Existing Sources: Commercial and Industrial Solid Waste Incineration Units [326 IAC 12 and 40 CFR Part 60.2500]

~~(a) The weight of the waste feed stream to the 253-1 incinerator shall be comprised of ninety percent (90%) or greater, in aggregate, of pathological waste, low-level radioactive waste, and/or chemotherapeutic waste, as defined in 40 CFR 60.2875, as measured on a calendar quarter basis. As specified in 40 CFR 60.2555(a) due to the above limit and the record keeping requirement in Section D.2.7, the incinerator is exempt from 40 CFR Part 60, Subpart DDDD.~~

~~(b)~~ The weight of the waste-feed stream to the 241-1 incinerator shall be comprised of thirty percent (30%) or greater, in aggregate, of municipal solid waste or refuse-derived fuel, as defined in 40 CFR 60 Subpart Ea, Subpart Eb, Subpart AAAA and Subpart BBBB, and the incinerator has the capacity to burn less than 35 tons/day municipal solid waste or refuse-derived fuel, as measured on calendar quarter basis. As specified in 40 CFR 60.2555(c),

due to the above limit and the record keeping requirement in Section D.2.7, the incinerator is exempt from 40 CFR Part 60, Subpart DDDD.

Compliance Determination Requirements

D.2.6 Testing Requirements [326 IAC 2-8-5(a)(1), (4)][326 IAC 2-1.1-11]

The Permittee is not required to test the~~se~~ incinerator~~s~~ by this permit.

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

D.2.7 Waste Throughput

The Permittee shall maintain records of the following values:

(a) Total monthly amount of waste burned and annual amount of waste burned to the ~~two (2)~~ incinerator~~s~~ rolled on a monthly basis;

(b) Total monthly hydrochloric acid emissions and annual hydrochloric acid emissions rolled on a monthly basis; **and**

(c) ~~The weight on a calendar quarter basis, in aggregate of pathological waste, low-level radioactive waste, and/or chemotherapeutic waste combusted and the weight of all other fuels and wastes combusted in incinerator 253-1; and~~

~~(d)~~ The weight on a calendar quarter basis, in aggregate of hospital waste and medical/infectious waste, the weight of municipal waste combusted, and the weight of all other fuels and waste combusted in incinerator 241-1.

~~The Permittee shall implement its record keeping requirements in section (c) of this condition sixty (60) days after the issuance of this FESOP.~~

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
Office of Air Quality
COMPLIANCE DATA SECTION

FESOP Quarterly Report

Source Name:	Eli Lilly and Company, Greenfield Laboratories
Source Address:	2001 West Main Street, Greenfield, Indiana 46140
Mailing Address:	P. O. Box 708, Greenfield, Indiana 46140
FESOP No.:	F059-12151-60001
Facility:	~~(a) one (1) natural gas, multi chamber, Brule incinerator (ID# 253-1) with a heat input capacity of 3.9 million Btu per hour and~~ ~~(b)~~ one (1) natural gas, multi chamber, Consumat incinerator (ID# 241-1) with a heat input capacity of 2.8 million Btu per hour.
Parameter:	total waste throughput and hydrochloric acid (HCl) emissions
Limit:	Less than 591 tons of waste per 12 consecutive month period, rolled on a monthly basis and

Less than 10 tons of HCl per 12 consecutive month period rolled on a monthly basis.

Year: _____ Quarter _____

Month	waste throughput per month (tons)	waste throughput for the previous 12 months (tons)	HCl emissions per month (tons)	HCl emissions for the previous 12 months (tons)
Month 1				
Month 2				
Month 3				

Submitted by: _____

Title/Position: _____

Signature: _____

Date: _____

Attach a signed certification to complete this report.

All other conditions of the permit shall remain unchanged and in effect. Please attach a copy of this amendment and the following revised permit pages to the front of the original permit.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Aida De Guzman at (800) 451-6027, press 0 and ask for extension (3-4972), or dial (317) 233-4972.

Sincerely,

Original signed by Paul Dubenetzky
Paul Dubenetzky, Chief
Permits Branch
Office of Air Quality

Attachments
APD
cc: File - Hancock County
U.S. EPA, Region V
Hancock County Health Department
Air Compliance Section Inspector - D J Knotts

Compliance Data Section - Karen Nowak
Administrative and Development
Technical Support and Modeling - Michele Boner

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) RENEWAL OFFICE OF AIR QUALITY

Eli Lilly and Company - Greenfield Laboratories
2001 West Main Street
Greenfield, Indiana 46140

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: F059-12151-00001	
Issued by: Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: May 2, 2002 Expiration Date: May 2, 2007

1st Administrative Amendment No.: 059-17791, issued on July 11, 2003

2nd Administrative Amendment No.: 059-18173	Pages Affected: 6, 7, 8, 29, 30, 38
Issued by: Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date:

SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 through A.5 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-8-3(b)]

The Permittee owns and operates a stationary pharmaceutical research source.

Authorized individual:	David R. O'Donnell, Manager Plant Engineering, Maintenance and Utilities or Paul Gilson, Team Leader, Environmental Services
Source Address:	2001 West Main Street, Greenfield, Indiana 46140
Mailing Address:	P.O. Box 708, Greenfield, Indiana 46140
SIC Code:	2834 and 2879
County Location:	Hancock County
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Federally Enforceable State Operating Permit (FESOP) Minor Source, under PSD Rules;

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

This stationary source consists of the following emission units and pollution control devices:

(a) Four (4) boilers

Qty	Facility/Operation Description and ID No.	Control Device and ID No.	Stack ID No.
4	natural gas/no. 2 fuel oil fired boiler (ID#s 254-1, 254-2, 254-3, and 254-4) with heat input capacities of 51.0, 63.0, 67.0, and 78.0 million Btu per hour, respectively	none	254-1, 254-2, 254-3, and 254-4

(b) One (1) incinerator

Qty	Facility/Operation Description and ID No.	Control Device and ID No.	Stack ID No.
1	natural gas-fired, multi chamber, Consumat incinerator (ID# 241-1) with a natural gas heat input capacity of 2.8 million Btu per hour.	none	241-1

(c) One (1) 500 hours per year no.2 fuel oil-fired back-up generator and one (1) 200 hours per year emergency generator

Qty	Facility/Operation Description and ID No.	Control Device and ID No.	Stack ID No.
1	No. 2 fuel oil fired back-up generator (ID# B409) with a heat input capacity of 5.63 million Btu per hour	none	0
1	No. 2 fuel oil fired emergency generator (ID #EMG-TOX) with a heat input capacity of 19.3 million Btu per hour	none	**0**

A.3 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-8-3(c)(3)(I)]

This stationary source also includes the following insignificant activities, as defined in 326 IAC 2-7-1(21):

(a) Three (3) natural gas-fired boilers (ID#s 293-1, 229-1, and 229-2), with heat input capacities less than or equal to 2.1 million Btu per hour (Note: These insignificant activities have applicable requirements in section D.1).

(b) Seven (7) no. 2 fuel oil-fired emergency generators (ID#s 226, 252, 241-out, 254a, 254b, 291, and 418), each with a heat input capacity less than or equal to 3.75 million Btu per hour.

(c) Fifteen (15) natural gas-fired emergency generators (ID#s 206, 223, 229, 235, 241-penthouse, 244, 245, 246, 276, 288, 292, 296, 417, 428-east, and 428-west), each with a heat input capacity less than or equal to 0.66 million Btu per hour.

(d) Three (3) propane-fired emergency generators (ID#s 212, 290, and 248), each with a heat input capacity less than or equal to 0.42 million Btu per hour.

(e) Two (2) no. 2 fuel oil fired emergency fire pump engines (ID#s FP-B204 and FP-B208), each with a heat input capacity of 0.82 million Btu/hr. (Note: These insignificant activities have applicable requirements in D.4).

(f) A gasoline fuel transfer and dispensing operation handling less than or equal to 1,300 gallons per day, such as filling of tanks, locomotives, automobiles, having a storage capacity less than or equal to 10,500 gallons;

(g) A petroleum fuel, other than gasoline, dispensing facility having a storage capacity less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month;

(h) One (1) fuel oil storage tank (ID# 254-F) with a capacity of 250,000 gallons;

(i) Any degreasing operation that does not exceed 145 gallons of solvent usage per 12 months and not subject to 326 IAC 20-6, including, but not limited to the following:

(1) One (1) machine shop cold solvent cleaner constructed in 1982;
(2) Two (2) Building G409 cold solvent cleaners constructed after 1990; and
(3) One (1) Building 254 cold solvent cleaner constructed after 1990.

(Note: These insignificant activities have applicable requirements in D.5).

(j) Activities associated with the transportation and treatment of sanitary sewage (on-site sewage treatment facility);

(k) Asbestos abatement projects regulated by 326 IAC 14-10;

(l) On-site fire and emergency response training approved by IDEM;

(m) Laboratories as defined in 326 IAC 2-7-1;

(n) Farm operations; and

(o) A pharmaceutical production facility (Building 409).

(p) One (1) diesel reciprocating internal engine emergency generator, rated at 166 horsepower (hp), identified as EG210;

(q) One (1) natural gas-fired reciprocating internal engine emergency generator, rated at 415 hp, identified as EG239;

(r) One (1) diesel generator rated at 1,200 hp, identified as EG220; and

(s) One (1) diesel generator rated at 2,836 hp, identified as LC45.

A.4 FESOP Applicability [326 IAC 2-8-2]

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) to renew a Federally Enforceable State Operating Permit (FESOP).

A.5 Prior Permits Superseded [326 IAC 2-1.1-9.5]

(a) All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either

(1) incorporated as originally stated,

(2) revised, or

(3) deleted

by this permit.

(b) All previous registrations and permits are superseded by this permit.

SECTION D.2 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:
(b) One (1) incinerator:

one (1) natural gas fired, multi chamber, Consumat incinerator (ID# 241-1) with a natural gas heat input capacity of 2.8 million Btu per hour. This incinerator does not have any air pollution control device and exhausts through stack 241-1.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emissions Limitations and Standards [326 IAC 2-8-4(1)]

D.2.1 Particulate Matter [326 IAC 4-2]

Pursuant to 326 IAC 4-2 (Incinerator Rule), the incinerator shall:

(a) consist of primary and secondary chambers or the equivalent;

(b) be equipped with a primary burner unless burning wood products;

(c) comply with 326 IAC 5-1 and 326 IAC 2;

(d) be maintained properly as specified by the manufacturer and approved by the commissioner.

(e) be operated according to the manufacturer's recommendation and only burn waste approved by the commissioner;

(f) comply with other state and/or local rules or ordinances regarding the operation of incinerators;

(g) be operated so that emissions of hazardous material including, but not limited to, viable pathogenic bacteria, dangerous chemicals or gases, noxious odors are prevented;

(h) to not emit particulate matter (PM) emissions in excess of 0.3 pounds per 1,000 pounds of dry exhaust gas at standard conditions corrected to 50% excess air; and

(i) not create a nuisance or a fire hazard.

If any of the above result, the burning shall be terminated immediately.

D.2.2 Carbon Monoxide (CO) [326 IAC 9]

Pursuant to 326 IAC 9 (Carbon Monoxide Emission Rule), the Consumat incinerator ID#241-1) shall not discharge carbon monoxide unless the waste gas stream is burned in a direct-flame afterburner or is controlled by other means approved by the Commissioner. The Consumat incinerator, as a multi chamber incinerator, is an approved design by the Commissioner.

D.2.3 Hydrochloric Acid (HAP) [326 IAC 2-7]

The total annual waste throughput to the incinerator shall not exceed a total of 591 tons per twelve (12) consecutive month period, rolled on a monthly basis. This limitation was taken by the company and is equivalent to hydrochloric acid (a HAP) emissions less than 10 tons per year rolled on a monthly basis from both incinerators. Compliance with the HAP limit shall make

Part 70 (326 IAC 2-7) not applicable.

D.2.4 Medical Waste Incinerator Emission Guideline Exemption [326 IAC 12 and 40 CFR Part 60.30e, Subpart Ce]

The weight of the fuel feed stream to incinerator, ID#241-1 shall be comprised of ten percent (10%) or less, in aggregate, of hospital waste and medical/infectious waste as measured on a calendar quarter basis. Compliance with this limit and the record keeping requirement in Section D.2.7, qualifies the incinerator, ID#241-1 as a "co-fired combustors" as defined by 40 CFR 60.51c and exempts it from 40 CFR Part 60.30e, Subpart Ce.

D.2.5 40 CFR Part 60.2500, Subpart DDDD Emission Guidelines for Existing Sources: Commercial and Industrial Solid Waste Incineration Units [326 IAC 12 and 40 CFR Part 60.2500]

The weight of the waste-feed stream to the 241-1 incinerator shall be comprised of thirty percent (30%) or greater, in aggregate, of municipal solid waste or refuse-derived fuel, as defined in 40 CFR 60 Subpart Ea, Subpart Eb, Subpart AAAA and Subpart BBBB, and the incinerator has the capacity to burn less than 35 tons/day municipal solid waste or refuse-derived fuel, as measured on calendar quarter basis. As specified in 40 CFR 60.2555(c), due to the above limit and the record keeping requirement in Section D.2.7, the incinerator is exempt from 40 CFR Part 60, Subpart DDDD.

Compliance Determination Requirements

D.2.6 Testing Requirements [326 IAC 2-8-5(a)(1), (4)][326 IAC 2-1.1-11]

The Permittee is not required to test these incinerators by this permit.

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

D.2.7 Waste Throughput

The Permittee shall maintain records of the following values:

(a) Total monthly amount of waste burned and annual amount of waste burned to the incinerator rolled on a monthly basis;

(b) Total monthly hydrochloric acid emissions and annual hydrochloric acid emissions rolled on a monthly basis; and

(c) The weight on a calendar quarter basis, in aggregate of hospital waste and medical/infectious waste, the weight of municipal waste combusted, and the weight of all other fuels and waste combusted in incinerator 241-1.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
Office of Air Quality
COMPLIANCE DATA SECTION

FESOP Quarterly Report

Source Name: Eli Lilly and Company, Greenfield Laboratories
Source Address: 2001 West Main Street, Greenfield, Indiana 46140
Mailing Address: P. O. Box 708, Greenfield, Indiana 46140
FESOP No.: F059-12151-60001
Facility: One (1) natural gas, multi chamber, Consumat incinerator (ID# 241-1) with a heat input capacity of 2.8 million Btu per hour.
Parameter: Total waste throughput and hydrochloric acid (HCl) emissions
Limit: Less than 591 tons of waste per 12 consecutive month period, rolled on a monthly basis and
Less than 10 tons of HCl per 12 consecutive month period rolled on a monthly basis.

Year: _____ Quarter _____

Month	waste throughput per month (tons)	waste throughput for the previous 12 months (tons)	HCl emissions per month (tons)	HCl emissions for the previous 12 months (tons)
Month 1				
Month 2				
Month 3				

Submitted by: _____

Title/Position: _____

Signature: _____

Date: _____

Attach a signed certification to complete this report.

TABLE 6
INTERNAL COMBUSTION ENGINES

	Cap. (kW)	Cap (MMBtu/ hr)	Est. fuel use rate cf/hr for NG gal/hr for oil kgal for prop.	Emission factor lb/MMBtu for oil fired units lb/Mmcf for natural gas units lb/kgal for propane units						Potential to emit (lb/hr)						Unrestricted potential to emit (ton/yr)						Restricted potential to emit (ton/yr)					
				PM	PM-10	SO2*	NOX	VOC	CO	PM	PM-10	SO2	NOX	VOC	CO	PM	PM-10	SO2	NOX	VOC	CO	PM	PM-10	SO2	NOX	VOC	CO
Emg. Generator Group 1: Diesel Fuel Oil (No. 2) Units (EMG-1)																											
254a	300	2.8	20.4	0.3	0.3	0.5	4.4	0.4	1.0	0.9	0.9	1.5	12.3	1.1	2.7	0.1	0.1	0.1	1.2	0.1	0.3	0.1	0.1	0.1	1.2	0.1	0.3
254b	300	2.8	20.4	0.3	0.3	0.5	4.4	0.4	1.0	0.9	0.9	1.5	12.3	1.1	2.7	0.1	0.1	0.1	1.2	0.1	0.3	0.1	0.1	0.1	1.2	0.1	0.3
New G210	**100**	**0.9**	**6.6**	**0.3**	**0.3**	**0.5**	**4.4**	**0.4**	**1.0**	0.3	0.3	0.5	4.0	0.4	0.9	**0.0**	**0.0**	**0.0**	**0.4**	**0.0**	**0.1**	**0.0**	**0.0**	**0.0**	**0.4**	**0.0**	**0.1**
241-OUT	300	2.8	22.2	0.3	0.3	0.5	4.4	0.4	1.0	0.9	0.9	1.5	12.3	1.1	2.7	0.1	0.1	0.1	1.2	0.1	0.3	0.1	0.1	0.1	1.2	0.1	0.3
New G220	**800**	**7.5**	**54.7**	**0.3**	**0.3**	**0.5**	**4.4**	**0.4**	**1.0**	**2.3**	**2.3**	**3.9**	**33.1**	**3.0**	**7.1**	**0.2**	**0.2**	**0.4**	**3.3**	**0.3**	**0.7**	**0.2**	**0.2**	**0.4**	**3.3**	**0.3**	**0.7**
New LC45	**2000**	**18.8**	**136.0**	**0.3**	**0.3**	**0.5**	**4.4**	**0.4**	**1.0**	**5.8**	**5.8**	**9.9**	**82.9**	**7.5**	**17.9**	**0.6**	**0.6**	**1.0**	**8.3**	**0.8**	**1.8**	**0.6**	**0.6**	**1.0**	**8.3**	**0.8**	**1.8**
252	260	2.4	20.0	0.3	0.3	0.5	4.4	0.4	1.0	0.7	0.7	1.3	10.6	1.0	2.3	0.1	0.1	0.1	1.1	0.1	0.2	0.1	0.1	0.1	1.1	0.1	0.2
418	275	2.6	19.0	0.3	0.3	0.5	4.4	0.4	1.0	0.8	0.8	1.4	11.5	1.0	2.5	0.1	0.1	0.1	1.1	0.1	0.2	0.1	0.1	0.1	1.1	0.1	0.2
291	65	0.6	4.4	0.3	0.3	0.5	4.4	0.4	1.0	0.2	0.2	0.3	2.6	0.2	0.6	0.0	0.0	0.0	0.3	0.0	0.1	0.0	0.0	0.0	0.3	0.0	0.1
226	250	2.3	20.0	0.3	0.3	0.5	4.4	0.4	1.0	0.7	0.7	1.2	10.1	0.9	2.2	0.1	0.1	0.1	1.0	0.1	0.2	0.1	0.1	0.1	1.0	0.1	0.2
Total EMG-1	*4650*	*43.5*	*323.7*							*13.5*	*13.5*	*23.0*	*191.7*	*17.3*	*41.6*	*1.4*	*1.4*	*2.0*	*19.1*	*1.7*	*4.2*	*1.4*	*1.4*	*2.0*	*19.1*	*1.7*	*4.2*
Emg. Generator Group 2: Natural gas units (EMG-2)																											
229	60	0.6	600.0	10.0	10.0	0.6	3400.0	82.9	430.0	0.0	0.0	0.0	2.0	0.1	0.3	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
New G239	**255**	**3.8**	**3800.0**	**10.0**	**10.0**	**0.6**	**3400.0**	**82.9**	**430.0**	**0.0**	**0.0**	**0.0**	**12.9**	**0.3**	**1.6**	**0.0**	**0.0**	**0.0**	**1.3**	**0.0**	**0.2**	**0.0**	**0.0**	**0.0**	**1.3**	**0.0**	**0.2**
296	70	0.7	700.0	10.0	10.0	0.6	3400.0	82.9	430.0	0.0	0.0	0.0	2.4	0.1	0.3	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
428-EAST	60	0.6	600.0	10.0	10.0	0.6	3400.0	82.9	430.0	0.0	0.0	0.0	2.0	0.1	0.3	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
428-WEST	60	0.6	600.0	10.0	10.0	0.6	3400.0	82.9	430.0	0.0	0.0	0.0	2.0	0.1	0.3	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
206	45	0.4	400.0	10.0	10.0	0.6	3400.0	82.9	430.0	0.0	0.0	0.0	1.4	0.0	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
235	45	0.4	400.0	10.0	10.0	0.6	3400.0	82.9	430.0	0.0	0.0	0.0	1.4	0.0	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
417	45	0.4	400.0	10.0	10.0	0.6	3400.0	82.9	430.0	0.0	0.0	0.0	1.4	0.0	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
241-PENT	40	0.4	400.0	10.0	10.0	0.6	3400.0	82.9	430.0	0.0	0.0	0.0	1.4	0.0	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
246	30	0.3	300.0	10.0	10.0	0.6	3400.0	82.9	430.0	0.0	0.0	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
288	15	0.1	100.0	10.0	10.0	0.6	3400.0	82.9	430.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
223	5	0.0	0.0	10.0	10.0	0.6	3400.0	82.9	430.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
276	5	0.0	0.0	10.0	10.0	0.6	3400.0	82.9	430.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
292	5	0.0	0.0	10.0	10.0	0.6	3400.0	82.9	430.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
244	30	0.3	300.0	10.0	10.0	0.6	3400.0	82.9	430.0	0.0	0.0	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
245	30	0.3	300.0	10.0	10.0	0.6	3400.0	82.9	430.0	0.0	0.0	0.0	1.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Total EMG-2	*800*	*8.9*	*8900.0*							*0.1*	*0.1*	*0.0*	*30.3*	*0.7*	*3.8*	*0.0*	*0.0*	*0.0*	*2.8*	*0.0*	*0.2*	*0.0*	*0.0*	*0.0*	*2.8*	*0.0*	*0.2*
Emg. Generator Group 3: Propane units (EMG-3)																											
290	45	0.4	4.3	5.0	5.0	---	---	---	---	0.0	0.0	---	---	---	---	0.0	0.0	---	---	---	---	0.0	0.0	---	---	---	---
248	45	0.4	4.3	5.0	5.0	---	---	---	---	0.0	0.0	---	---	---	---	0.0	0.0	---	---	---	---	0.0	0.0	---	---	---	---
212	5	0.0	0.0	5.0	5.0	---	---	---	---	0.0	0.0	---	---	---	---	0.0	0.0	---	---	---	---	0.0	0.0	---	---	---	---
Total EMG-3	*95*	*0.8*	*8.6*							*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*
B409 Back-up Unit burns #2 fuel oil	600	5.6	15.1	0.3	0.3	0.5	4.4	0.4	1.0	1.7	1.7	2.9	24.7	2.2	5.3	0.4	0.4	0.7	6.2	0.6	1.3	0.4	0.4	0.7	6.2	0.6	1.3
EMG-TOX Unit burns #2 fuel oil	2000	18.8	137.2	0.3	0.3	0.5	4.4	0.4	1.0	5.8	5.8	9.9	82.9	7.5	17.9	0.6	0.6	1.0	8.3	0.8	1.8	0.6	0.6	1.0	8.3	0.8	1.8
Fire Pumps (#2 fuel oil)																											
FP-204		0.8	6.0	0.3	0.3	0.5	4.4	0.4	1.0	0.3	0.3	0.4	3.6	0.3	0.8	1.1	1.1	1.9	15.8	1.4	3.4	0.1	0.1	0.1	0.9	0.1	0.2
FP-208		0.8	6.0	0.3	0.3	0.5	4.4	0.4	1.0	0.3	0.3	0.4	3.6	0.3	0.8	1.1	1.1	1.9	15.8	1.4	3.4	0.1	0.1	0.1	0.9	0.1	0.2
Total Fire Pumps		*1.6*	*12.0*							*0.6*	*0.6*	*0.8*	*7.2*	*0.6*	*1.6*	*2.2*	*2.2*	*3.8*	*31.6*	*2.8*	*6.8*	*0.2*	*0.2*	*0.2*	*1.8*	*0.2*	*0.4*
Total all engines										*21.7*	*21.7*	*36.6*	*336.8*	*28.3*	*70.2*	*4.6*	*4.6*	*7.5*	*68.0*	*5.9*	*14.3*	*2.6*	*2.6*	*3.9*	*38.2*	*3.3*	*7.9*

Notes 2:
Fuel (gallons/yr, cf/yr) were based on 137,000 Btu/gallon (fuel oil) and 1000 Btu/cf (nat gas)
IDEM has changed the 500 hrs/yr used in FESOP 059-12151 for calculating unrestricted PTE into 200 hours per year for all emergency generators without any enforceable limit, based on historical data; unrestricted PTE based on 8760 hours per year for Fire Pumps
Restricted PTE based on 500 hours per year for Fire Pumps. Restricted PTE values for emergency generators = Unrestricted PTE (200 hours per year).
Emission factor sources: **EMG-1, EMG-Tox, and B409 Back-up:** SCC 2-03-001-01; **EMG-2:** SCC 2-03-002-01; **EMG-3:** SCC 2-03-010-01; **Fire Pumps:** SCC 2-03-001-02
* Sulfur dioxide emission factor assumes fuel oil sulfur content of 0.5 percent for the EMG-1, Fire Pumps, B409 Back-up, and EMG-TOX